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NOTICE OF ALLOWANCE AND FEE(S) DUE

512

7590

05/28/2008

WENDEROTH, LIND & PONACK, L.L.P. 2033 K STREET N. W. SUITE 800 WASHINGTON, DC 20006-1021 EXAMINER

BLOOM, NATHAN J

ART UNIT PAPER NUMBER

2624

DATE MAILED: 05/28/2008

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/542,026	07/11/2005	Isao Kawahara	2005_0977A	6756

TITLE OF INVENTION: METHOD AND DEVICE OF IMAGE CORRECTION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	08/28/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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WASHINGTON	N, DC 20006-1021							(Depositor's name)
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								(Date)
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nonprovisional	NO	\$1440	\$300		\$0		\$1740	08/28/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
BLOOM, N	NATHAN J	2624	382-266000					
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of u or agents OR, alter (2) the name of a s registered attorney	a single firm (having as a member a ney or agent) and the names of up to ent attorneys or agents. If no name is				
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on the Ta substitute for filing (B) RESIDENCE: (C	ne pa g an a	tent. If an assignee ssignment. and STATE OR CO	UNT	RY)	ocument has been filed for up entity
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a. Applicant claim	tus (from status indicated s SMALL ENTITY statu	is. See 37 CFR 1.27.			-		TTY status. See 37 CF	
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10/542,026 07/11/2005		Isao Kawahara	2005_0977A	6756	
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WENDEROTH,	LIND & PONACK,	BLOOM, NATHAN J			
2033 K STREET N	J. W.		ART UNIT	PAPER NUMBER	
SUITE 800 WASHINGTON, I	DC 20006-1021		2624 DATE MAILED: 05/28/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 411 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 411 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/542,026	KAWAHARA, ISAO		
Notice of Allowability	Examiner	Art Unit		
	NATHAN BLOOM	2624		
	NATHAN BLOOM	2024		
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communicat GHTS. This application is subject	application. If not included ion will be mailed in due course. THIS		
1. \boxtimes This communication is responsive to <u>amendment received</u>	on 02/25/2008.			
2. ☑ The allowed claim(s) is/are <u>1-6</u> .				
3. ☑ Acknowledgment is made of a claim for foreign priority ur a) ☑ All b) ☐ Some* c) ☐ None of the:	nder 35 U.S.C. § 119(a)-(d) or (f).			
 Certified copies of the priority documents have 	e been received.			
Certified copies of the priority documents have	been received in Application No.	·		
Copies of the certified copies of the priority do	cuments have been received in th	nis national stage application from the		
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ply complying with the requirements		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give				
5. CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.			
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review (PT	O-948) attached		
1) hereto or 2) to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the	e Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t				
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT				
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informa	al Patent Application		
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summa			
	Paper No./Mail I	Date		
3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 02/25/2008	7. ☐ Examiner's Ame	namen/Comment		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		ement of Reasons for Allowance		
	9.			

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DETAILED ACTION

Applicants' response to the last Office Action, filed on February 25th, 2008 has been entered and made of record.

Allowable Subject Matter

1. Claim 1-6 are allowed.

2. The following is a statement of reasons for the indication of allowable subject matter: Independent claims 1 and 2 have been amended to include a new limitation that is supported by the specification. The new limitation is the splitting of the boundary region into two portions, and the diffusion of only one portion of the boundary. The cited and known prior art have taught the correction and diffusion of the boundary with a single correction technique. Braica (US 2002/0097439) has taught the division of an edge region into two portions and the treatment of each side of the edge with a different amount of luminance correction to increase the contrast of the edge region. Thus the division and treatment of boundary portions with different processing techniques was known in the art. However, Kawahara (cited prior art reference) teaches the diffusion of edge regions, which reduces the contrast of the edge in order to remove false edges from the video image. Examiner has found that there is no motivation to combine these references (Kawahara and Braica) without a teaching that it would be favorable to diffuse one portion of the boundary instead of the other portion. Furthermore, claims 3-6 depend from claims 1-2, and thus are allowable for the reasons cited above.

Conclusion

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3. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

• Braica, US 2002/0097439 – teaches division of boundary region and processing

of each portion in order to enhance edge contrast.

• Sai et. al., US 7304672 – teaches the division of the boundary into two portions

and corrects each portion according to the bordering region (based on luminance

to increase edge contrast).

• Kawabata et. al., US 6661469 – false contour correction.

• Enomoto, US 2004/0227978 – enhances edge contrast.

• Mikoshiba et. al., US 6496194 - halftone display method for reducing false

contours.

• Kawakami et. al., US 6661470 - halftone display method for reducing false

contours.

• Okuzawa and Kimura, US 2003/0048285 – false contour reduction method.

• Jeong, US 2003/0090444 - halftone display method and false contour reduction.

• Lee et. al., US 2004/0070590 – false contour reduction method.

• Kang, US 2004/0155891 – false contour reduction method.

• Kawamura et. al., US 2006/0072044 – false contour reduction method.

Contact Information

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan Bloom whose telephone number is 571-272-9321. The examiner can normally be reached on Monday through Friday from 8:30 am to 5:00 pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehta Bhavesh, can be reached on 571-272-7453. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NB

/Bhavesh M Mehta/ Supervisory Patent Examiner, Art Unit 2624